

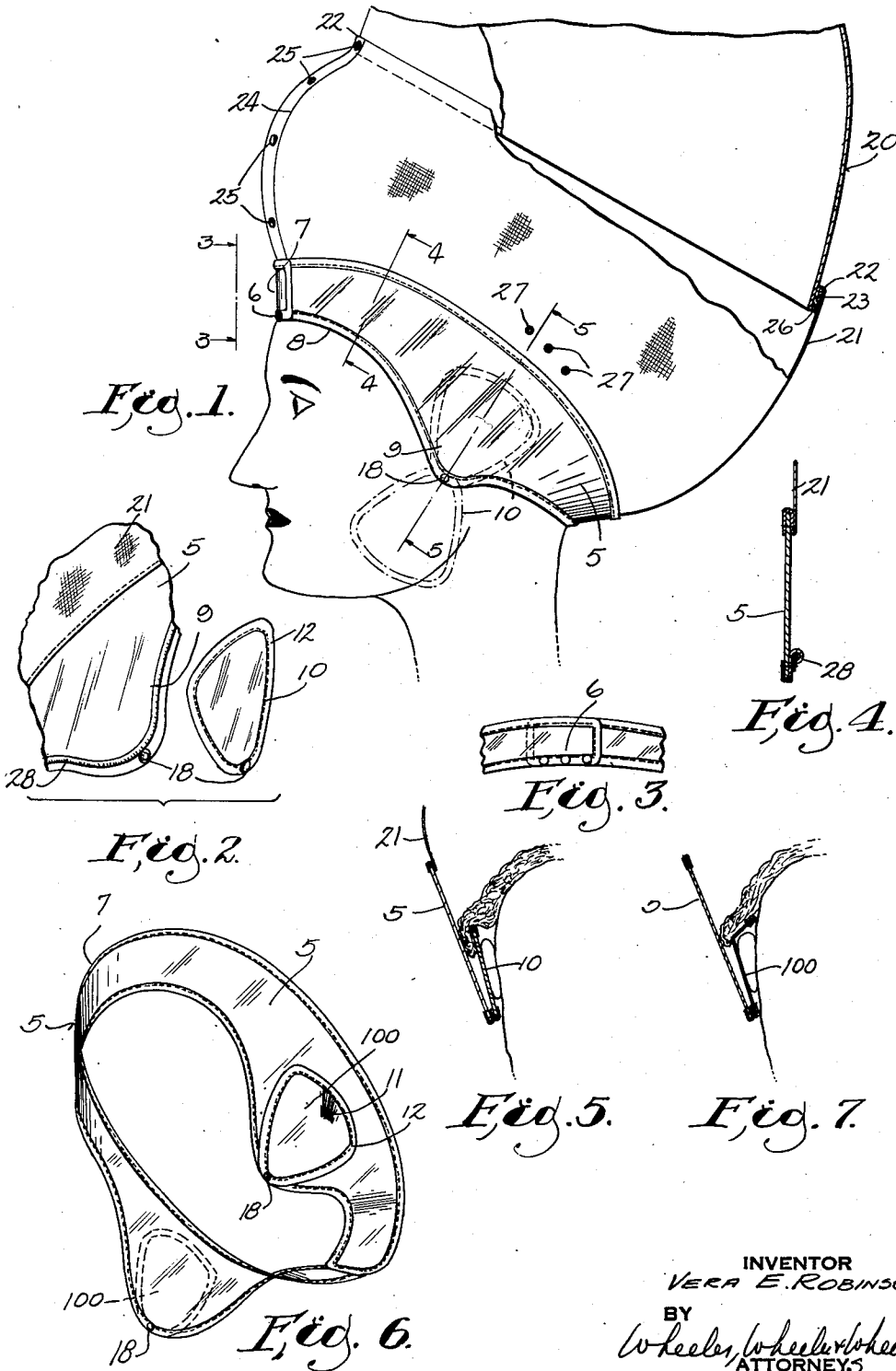
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HEAT DEFLECTOR

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HEAT DEFLECTOR

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5 Claims. (Cl. 34-99)

This invention relates to improvements in heat deflectors.

It is the object of the invention to provide a novel and improved shield or deflector to be worn about the head of a beauty shop patron during a hair drying operation, to divert hot air from the face and body of the patron and, in some instances, to provide a connection between the head of the patron and the hood or bell of the hair dryer to confine the heat, thereby reducing the drying time by almost one-half and preventing an undue rise in temperature in the room in which the device is used.

More particularly stated, it is one of the provisions of the invention to provide a shield or deflector tightly fitted to the patron's head substantially at the hair line and formed to divert and recirculate hot air to the dryer. One of its important features includes the provision of means for supporting the patron's hair over the patron's ears while individually protecting the respective ears by an ear shield which is detachable or at least adjustable so that it may be positioned and removed with a minimum displacement of the patron's hair. Another important feature of the invention includes the provision in one embodiment thereof, of a flexible and adjustable connection between the heat deflecting brim and the dryer head so that the accessory becomes in effect a part of the drying apparatus.

It is a further purpose of the invention, in some embodiments thereof, to shape the individual ear shields to relieve the ears of pressure.

Other objects will be apparent from the following disclosure of the invention.

In the drawing:

Fig. 1 is a side elevation of a device embodying my invention as it appears in use.

Fig. 2 is a fragmentary detail view of the device showing a side elevation of its interior surface and an associated side elevation of the ear shield pivotally and detachably connected normally thereto.

Fig. 3 is a fragmentary detail view taken on the line 3-3 of Fig. 1.

Fig. 4 is a fragmentary detail view taken in section on the line 4-4 of Fig. 1.

Fig. 5 is a fragmentary cross section taken on the line 5-5 of Fig. 1.

Fig. 6 is a view in perspective showing a modified and simplified embodiment of the invention.

Fig. 7 is a view similar to Fig. 5, showing a transverse cross section through the apparatus shown in Fig. 6.

Like parts are identified by the same reference characters throughout the several views.

A headband 5 provides a deflector to return descending currents to a dryer bell, later described.

Band 5 is cut from a blank or pattern of such design that when its ends are connected at 6 the band will be upstanding at its front portion 7 to prevent the hot air from a dryer or other apparatus from cascading downwardly over the patron's face, while the rest of the band flares upwardly and outwardly from the bottom margin to recirculate in an upward direction air flowing downwardly upon the crown of the patron's head.

At its lower margin 8, the band 5 is shaped to conform to the patron's head, and substantially to the patron's hair line, so that substantially none of the patron's skin below the hair line will be exposed to the hot air. Because the hair is frequently dressed to extend downwardly over the patron's ears, it is necessary that the band 5 be formed downwardly at 9 to a point below the ear. The ear itself is protected, however, by a specially shaped shield 10 or 100, which may either be flat or molded or shaped by a gore, as shown at 11, to such a form as to fit the head snugly about the ear without any undue pressure on the ear itself. In other words, the shield 100 is cupped. Its bound margins 12 rest directly against the wearer's head, while the cavity resulting from its conformation is sufficiently large to receive the ear in the manner indicated in Fig. 7.

The ear shields 10 or 100 are pivoted to the band 5 and are preferably connected thereto by glove fasteners as indicated at 13, whereby the ear shield may not only be swung between the dotted and full line positions illustrated in Fig. 1, but may also be completely removed as shown in Fig. 2. It is very important to have at least the pivotal adjustment and preferably the arrangement for complete removal to facilitate the handling of many coiffures which must be allowed to dry absolutely undisturbed over the patron's ears. The deflector may be ordinarily placed on the patron's head with the ear shields drawn down as shown in Fig. 1, and the shield may even be swung upwardly beneath the hair to cover the ear with virtually no disturbance to the design in which the hair is fixed. If the glove fasteners are employed, the detachable ear shield may be slipped into place first between the ear and the hair and thereafter the deflector may be applied about the patron's head, and finally the connections may be made between the deflector and the shields.

Even in the construction shown in Fig. 6, there is a strong tendency for the air issuing from the dryer bell to be returned to the dryer and recirculated. To assure such return and to confine the heat and absolutely prevent it from causing discomfort to the patron or other occupants of the room. A separate annular connector is provided intermediate the deflector band 5 and the dryer bell 20 as to constitute a flexible extension of the dryer bell or accessory thereto. For this purpose a flexible apron 21 of some convenient non-form-sustaining material such as oiled silk is stitched or otherwise fastened to the deflector band 5 and provided at its upper end with a hem 22 through which may be run an elastic tape at 23. The apron 21 may be of tubular form preferably with a barrel-shaped bulge intermediate its upper and lower margins and may either be made without a vertical seam or it may be fastened along a seam 24 by means of buttons or glove fasteners or any other desired securing devices such as those shown at 25. It will further be obvious that instead of having an elastic tape at 23, the upper end of the apron 21 may be made elastically contractile in any other of the numerous ways now available.

The apron should have sufficiently large transverse diameter to allow free circulation of hot air over the hair to be dried, and by making this apron of flexible material and of materially larger diameter than the head of the patron, vortices and vibratory movements of the apron may be set up which materially expedite the drying operation. By making the band and the apron in the form of strips having ends adapted to be detachably connected with each other, the band may be bound about the head of the wearer and the apron may be bound to the lower margin of the bell by quick detachable fastenings such as snap fasteners of ordinary commercial type whereby not only the ear protectors but also the band and apron may be quickly and separately detached or replaced.

The lower end of the bell or shield 20 is provided with a bead at 26 over which the elastically contractile upper margin of the apron engages to maintain the appliance in position and to assure the recirculation of the hot air after it has been blown to the patron's head.

Along the opening at 24 some air is permitted to pass in and out of the shield and some additional provision is made for exchange of air by the provision of eyelets or the like at 27. Only slight exchange of air is permitted and none is absolutely required, since the air confined within the apparatus is sufficient of itself, when heated, to dry the ordinary hair. With the heat thus confined, the drying operation may be cut from one-third to one-half of the time which would otherwise be necessary, and the room is kept from becoming overheated, and the patron's comfort is greatly enhanced.

While cellulose acetate and oiled silk have been named as the preferred materials from which the band and apron above the hair line are preferably made, it will be understood that other suitable materials may be substituted. The material for the apron should be more flexible than that of the brim 5, but the brim itself should preferably be sufficiently flexible to be adaptable to the patron's head. All margins are preferably bound with tape to soften them.

In addition, the lower margin, where it fits the

patron's head, is preferably provided with a packing roll 28.

If the device is not merely flexible, but is also made of a transparent material, the operator will be able to work to better advantage because the patron's hair will be visible through the device.

I claim:

1. A hair dryer having in combination, a form-sustaining hot air supply member, a substantially impervious form-sustaining head encircling band having ends provided with detachable fastenings for binding the band to the head of the patron with the lower margin in contiguous engagement therewith and the upper portion flaring outwardly therefrom, and a relatively flexible substantially impervious connecting strip having a lower margin connected to the band, an upper margin detachably connected with the hot air supply member, and ends provided with detachable connections adapted to form a closed chamber above the band, whereby the ends of the band and the connecting member may be separately secured together to provide a chamber in which hot air may be confined and circulated in contact with the hair of the patron.

2. A hair dryer as set forth in the preceding claim in which the connecting strip is of a generally barrel-shaped form having a central portion of greater diameter than that of the band and adapted to additionally promote air circulation and recirculation in contact with the hair.

3. In a device of the described type for shielding a patron's face during the drying of the patron's hair, the combination with a band having its lower margin shaped to fit closely about the patron's head adjacent the hair line and to extend below the patron's ears, said band flaring upwardly and away from the head above said margin, of a pair of ear protectors each pivotally connected with said band adjacent said lower margin for pivotal movement from a depending position below said band to a position in which the respective ear protector is interposed between the band and the ear of the patron.

4. In a device of the described type, the combination with a head encircling band having a lower margin closely fitted to the patron's head near the hair line, said lower margin extending beneath the patron's ears, of a pair of ear protectors receivable within the band and between the band and the patron's ears and each provided with a glove fastener connection detachably securing it to the band adjacent the lower margin of the band and upon which connection the ear protector is pivotally movable respecting the band, as well as being detachable therefrom.

5. In a device of the described type, the combination with a head encircling band having a lower margin closely fitted to the patron's head near the hair line and flaring upwardly and outwardly from the patron's head above said lower margin, said lower margin of the band extending beneath the patron's ears, and a pair of cupped ear protectors each having a glove fastener connection with the band adjacent its lower margin at the patron's ears, said ear protectors being removable from the band and respectively pivotally adjustable upon said glove fastener connections from lowered positions beneath the band to raised positions between the band and the patron's respective ears.

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